

Title (en)

SILICA SPHERICAL BODY AND AFFINITY CARRIER

Title (de)

KUGELFÖRMIGE KIESELSÄUREKÖRPER UND AFFINITÄTSTRÄGER

Title (fr)

CORPS SPHÉRIQUE À BASE DE SILICE ET SUPPORT D'AFFINITÉ

Publication

EP 2772466 A1 20140903 (EN)

Application

EP 12843273 A 20121026

Priority

- JP 2011237204 A 20111028
- JP 2012077788 W 20121026

Abstract (en)

To provide an affinity carrier with a low pressure loss and a large binding capacity even when the linear flow rate of a solution to be made to pass therethrough is high. Silica spheres, which satisfy the following conditions: (a) the average particle size is from 30 µm to 40 µm as measured by a laser light scattering method; (b) the ratio (D10/D90) of the particle size (D10) of smaller 10% cumulative volume to the particle size (D90) of 90% cumulative volume in a particle size distribution as measured by a Coulter counter method, is at most 1.50; and (c) the average pore size is from 85 nm to 115 nm and the pore volume is at least 1.5 mL/g, as measured by a mercury intrusion technique.

IPC 8 full level

C01B 33/193 (2006.01); **C07K 17/14** (2006.01); **G01N 30/88** (2006.01)

CPC (source: EP US)

B01D 15/3809 (2013.01 - EP US); **B01J 20/103** (2013.01 - EP US); **B01J 20/28004** (2013.01 - EP US); **B01J 20/28019** (2013.01 - EP US); **B01J 20/28076** (2013.01 - EP US); **B01J 20/28085** (2013.01 - EP US); **B01J 20/286** (2013.01 - EP US); **B01J 20/3085** (2013.01 - EP US); **B01J 20/3204** (2013.01 - EP US); **B01J 20/3274** (2013.01 - EP US); **C01B 33/193** (2013.01 - EP US); **C07K 17/14** (2013.01 - EP US); **C07K 1/22** (2013.01 - EP US)

Cited by

US2018243665A1; WO2017036805A1; US11835501B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2772466 A1 20140903; **EP 2772466 A4 20151209**; CN 103906708 A 20140702; CN 103906708 B 20150923; IN 3278DEN2014 A 20150522; JP 6002142 B2 20161005; JP WO2013062105 A1 20150402; KR 20140086975 A 20140708; US 2014235435 A1 20140821; US 9192914 B2 20151124; WO 2013062105 A1 20130502

DOCDB simple family (application)

EP 12843273 A 20121026; CN 201280052688 A 20121026; IN 3278DEN2014 A 20140423; JP 2012077788 W 20121026; JP 2013540854 A 20121026; KR 20147010424 A 20121026; US 201414262039 A 20140425